

WHAT IS CLAIMED IS:

- 1                    1.        A multi-robotic system architecture having a plurality of system layers  
2        interconnected to one another, comprising:  
3                    a first layer including a hybrid control system for a plurality of mobile robotic  
4        agents (MRAs);  
5                    a second layer including a distributed mobile robotic system for the plurality  
6        of MRAs;  
7                    a third layer including a grid computing architecture in a plurality of dynamic  
8        clusters;  
9                    a fourth layer including a dynamic distributed object relational database  
10        management system;  
11                    a fifth layer including an omni-nodal evolutionary artificial neural network;  
12                    a sixth layer including a multi-agent system and a plurality of intelligent  
13        mobile software agents;  
14                    a seventh layer including a plurality of cellular automata simulations; and  
15                    an eighth layer including a plurality of functional applications.